

### ABSTRACT

A femoral insert for implantation into an intermedullary canal of a femur is described. The femoral insert includes a stem portion having a proximal section and a distal section. The proximal section includes lateral and medial surfaces having an equal, or at least substantially constant equal radius, i.e., as the diameter of the stem portion decreases from the proximal portion to the distal end portion, the radius of the lateral surface is equal to, or at least substantially equal to, the radius of the medial surface. The distal section includes an arc taper section, where the respective radii of the lateral surface and the medial surface of the proximal section begin to converge together and continue to converge together downwardly towards the distal end portion so as to form a distal arc taper portion tangential to the proximal section. Optional bilateral radial lip members are provided on at least a portion of the lateral surface of the proximal section to prevent rotation of the femoral insert.

1005696 "020402  
204020" 96699007